

This listing of claims will replace all previous versions.

What is claimed is:

1-43. (*canceled*)

44. (*Currently amended*) A medium for culturing ~~mammalian~~ CHO cells comprising mannose, fructose, galactose, and N-acetylmannosamine, wherein the use of the medium can increase the sialic acid content of a protein produced by the CHO cells.

45. (*Previously submitted*) The medium of claim 44, wherein the medium is serum free.

46. (*Currently amended*) The medium of claim 44, wherein the medium is for culturing CHO cells during a production phase ~~mammalian cells are CHO cells.~~

47. (*Previously submitted*) The medium of claim 44, wherein the concentrations of galactose, mannose, and fructose are each from about 1 mM to about 10 mM and the concentration of N-acetylmannosamine is at least about 0.8 mM.

48. (*Previously submitted*) The medium of claim 44, wherein the concentrations of galactose, mannose, and fructose are each from about 1.5 mM to about 4.5 mM.

49. (*Currently amended*) A method for increasing the sialic acid content of a protein produced by ~~mammalian~~ CHO cells comprising culturing the cells in the medium of claim 44.

50. (*Previously submitted*) The method of claim 49, wherein the medium is serum free.

51. (*Currently amended*) The method of claim 49, wherein the CHO cells are cultured in the medium during a production phase ~~CHO cells.~~

52. (*Previously submitted*) The method of claim 49, wherein the concentrations of galactose, mannose, and fructose are each from about 1 mM to about 10 mM and the concentration of N-acetylmannosamine is at least about 0.8 mM.

53. *(Previously submitted)* The method of claim 49, wherein the concentrations of galactose, mannose, and fructose are each from about 1.5 mM to about 4.5 mM.
54. *(Previously submitted)* The method of claim 49, wherein the protein is a secreted, recombinant protein.
55. *(Previously submitted)* The method of claim 49, wherein the cells are cultured at a temperature from about 29°C to about 36°C.
56. *(Currently amended)* A medium for culturing CHO ~~mammalian~~ cells comprising galactose and N-acetylmannosamine, wherein the use of the medium can increase the sialic acid content of a protein produced by the CHO cells.
57. *(Previously submitted)* The medium of claim 56, wherein the medium is serum free.
58. *(Currently amended)* The medium of claim 56, wherein the medium is for culturing CHO cells during a production phase ~~mammalian cells are CHO cells.~~
59. *(Previously submitted)* The medium of claim 56, wherein the concentration of galactose, is from about 1 mM to about 10 mM and the concentration of N-acetylmannosamine is at least about 0.8 mM.
60. *(Previously submitted)* The medium of claim 56, wherein the concentration of galactose is from about 1.5 mM to about 4.5 mM.
61. *(Currently amended)* A method for increasing the sialic acid content of a protein produced by CHO ~~mammalian~~ cells comprising culturing the cells in the medium of claim 56.
62. *(Previously submitted)* The method of claim 61, wherein the medium is serum free.
63. *(Currently amended)* The method of claim 61, wherein the CHO cells are cultured in the medium during a production phase ~~CHO cells.~~
64. *(Previously submitted)* The method of claim 61, wherein the concentration of galactose, is from about 1 mM to about 10 mM and the concentration of N-acetylmannosamine is at least about 0.8 mM.

65. *(Previously submitted)* The method of claim 61, wherein the concentration of galactose, is from about 1.5 mM to about 4.5 mM.
66. *(Previously submitted)* The method of claim 61, wherein the protein is a secreted, recombinant protein.
67. *(Previously submitted)* The method of claim 61, wherein the cells are cultured at a temperature from about 29°C to about 36°C.
- 68-91. *(Cancelled)*